

KAZARINOV, V.P., otv.red.vypuska; ROSTOVTSEV, N.N., glavnnyy red.; SEGAL', Z.G., vedushchiy red.; GUKARI, F.G., zamestitel' glavnogo red.; AMSHINSKIY, N.N., red.; DERBIKOV, I.V., red.; KALUGIN, A.S., red.; MALIKOV, B.N., red.; MIKUTSKIY, S.P., red.; SUKHOV, S.V., red.; TESLENKO, Yu.V., red.; UMANTSEV, D.F., red.; GAVRILOVA, N.V., red.; SAFRONOVA, I.M., tekhn. red.

[Geology and prospects for finding oil and gas in the northwestern part of the Siberian Platform.] Geologicheskoe stroenie i perspektivy neftegazonosnosti severo-zapada Sibirskej platformy. Leningrad, Gostoptekhizdat, 1963. 183 p. [Trudy Sibirskego nauchno-issledovatel'skogo instituta geologii, geofiziki i mineral'nogo syr'ya, no.28.] (MIRA 1611)

TUYEZHOVA, Nina Aleksandrovna; Prinimall u' stiye: DEMINA, R.G.; BRYUZGINA, N.I.; ROSTOVTSEV, N.N., glavnnyy red.; GURARI, F.G., zamestite'l' glavnogo red.; UMANTSEV, D.F., red.; DEERIKOV, I.F., red.; KAZARINOV, V.P., red.; KALUGIN, A.S., red.; KOLOBKOV, M.N., red.; MALIKOV, B.N., red.; MIKUTSKIY, S.P., red.; BOTVINNIKOV, V.I., red.; BUDNIKOV, V.I., red.; BOGOMYAKOV, G.P., red.; SURKOV, V.S., red.; SUKHOV, S.V., red.; BOCHAROVA, N.I., red.

[Physical properties of rocks in the West Siberian Plain.]
Fizicheskie svoistva gornykh porod Zapadno-Sibirskoi nizmennosti.
Moskva, Nedra, 1964. 127 p. (Sibirskii nauchno-issledovatel'skii institut geologii, geofiziki i mineral'nogo syr'ia. Trudy, no.31).
(MIRA 18:7)

GORODILOV, Yu.; SUKHOV, V.; PAYBARSHEV, A., inzh.

Valuable attachment. Zemledelie 26 no.8:90 Ag '64.

(MIRA 17:11)

1. Glavnnyy inzhener Novotor"yal'skogo ob'yedineniya "Sel'khoz-tehnika" Mariyskov ASSR (for Gorodilov). 2. Glavnnyy inzhener Novotor"yal'skogo proizvodstvennogo upravleniya Mariyskoy ASSR (for Sukhov). 3. Kolkhoz "Pervoye Maya" Novotor"yal'skogo proizvodstvennogo upravleniya Mariyskoy ASSE (for Paybarshev).

32836

S/020/62/142/002/019/029
B106/S101

158170 1581

AUTHORS: Berlin, A. A., Baranovskaya, N. B., Mizikin, A. I., and Sukhov, V. A.

TITLE: Degradation and structuralization of polydimethyl siloxane (PDMS) under thermal action

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 142, no. 2, 1962, 351-353

TEXT: The primary thermal cracking of polymeric materials begins on the weakest macromolecular bonds. These bonds may form at the insertion points of the initiator, of oxygen, of molecules of additions and regulators, etc. The possibility of increasing the thermal stability of polymers by removing the weak bonds was examined under conditions preventing or rendering difficult the development of a chain reaction of the thermal disintegration of macromolecules. The investigation was conducted on polydimethyl siloxane rubber whose vulcanized products decompose considerably when heated to 200°C under exclusion of air. The rubber (mean molecular weight 40 - 50·10⁴) was stirred to a paste, using an inorganic filler and benzoyl peroxide, and was then filled into ~2 mm Card 1/4

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32838

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B106/B101

Degradation and structuralization...

high metallic molds. These molds were hermetically sealed and heated to 150 - 350°C. A few molds were taken out after given time intervals, and the hardness and mechanical stability of the samples were determined. As is shown by the results, the supply of thermal energy to the polymer under exclusion of air (i. e., in the absence of an initiator of a destructive chain reaction) permits a rearrangement of the polymer structure. The macromolecules formed in the process display less "weak bonds" and are therefore thermally more stable. This rearrangement is a radical process, and basically consists of three reactions: (1) macromolecular destruction of the initial polymer on the weakest bonds under formation of macroradicals; (2) chain transfer through the forming macroradicals; (3) structuralization of the system by the recombination of the macroradicals under development of bonds being sufficiently stable against heat treatment. Two conversion stages, differing sharply from each other, and characterized by the predominance of the reactions (1) and (2) or the reaction (3) take place successively in the heat treatment of polydimethyl siloxane rubber under exclusion of air. In the first stage, tensile strength and Shore hardness drop, and rise again in the subsequent second stage. The rates of drop and subsequent rise of the

Card 2/4

32838

S/020/62/142/002/019/029
B106/B101

Degradation and structuralization...

said stability characteristics are increased to about the same extent with an increase of temperature. The structuralization is preceded by a longer or shorter induction period which is possibly due to the relatively high viscosity of the system, by which the reaction between the macro-radicals is rendered more difficult. It is concluded that the above-described strength regeneration with heat treatment under exclusion of air is generally possible in polymers with relatively flexible chains and weak cross-linking effected by bridge bonds. By the above-described rearrangement of the polymer structure combined with the use of efficient stabilizers it should be possible to approach the temperature limit of exploitation closely to the theoretical value (500 - 800°C) which is chiefly dependent on the strength of covalent bonds in the macromolecules. The use of stabilizers alone is not sufficient for this purpose. There are 4 figures.

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics of the Academy of Sciences USSR)

PRESENTED: June 24, 1961, by V. N. Kondrat'yev, Academician

Card 3/4

AUTHOR: SOVETOV,N.M., SUKHOV,V.A. 109-5-13/22
TITLE: On the Question of the Calculation of Power Flux and the Connection
Resistances in the Spiral Band. (K voprosu o raschete potoka
moshchnosti i sопротивленiя svyazi v lentochnoy spirali, Russian)
PERIODICAL: Radiotekhnika i Elektronika, 1957, Vol 2, Nr 5, pp 622-630 (U.S.S.R.)
ABSTRACT: The theory mentioned here is based upon the method of representing
electromagnetic fields in a heterogenous periodic structure in form
of infinite sums of spatial harmonics. By means of direct integra-
tion of the formula by UMOV-POYNTING the equation for the power flux
in the spiral is obtained. On the basis of an investigation of the
energy distribution according to harmonics it is shown that the re-
flection of the energy in the point of separation can be explained
by the change of the direction into one that is opposite to the
power flux which corresponds to the negative harmonics. Besides,
some approximations which are possible when calculating the full
power flux in the spiral are evaluated and the connection resist-
ances of the zero-th and of the first negative spatial harmonic are
computed for some concrete examples of spirals. (With 3 Illustra-
tions and 3 Slavic References).
ASSOCIATION: Not given
PRESENTED BY:
SUBMITTED: 11,2,1956
AVAILABLE: Library of Congress
Card 1/1

6,7000 (1594)

S/109/61/006/005/016/027
D201/D303

AUTHOR: Sukhov, V.A.

TITLE: The characteristic impedance and attenuation of a TEM-wave propagated along a multiwire line consisting of rectangular conductors

PERIODICAL: Radiotekhnika i elektronika, v. 6, no. 5, 1961,
820 - 824

TEXT: The problem of propagation of a TEM-wave in a multiwire line having tape conductors lying in one plane has been solved by Chiao-Min Chu (Ref. 1: J. Appl. Phys. 1958, 29, 88). In the present article the author gives the solution of the problem as applied to a line with rectangular conductors. The problem reduces to finding a conformal transformation which would convert the outside of this line into the inside of a multiwire periodic line consisting of rectangular conductors. This conformal transformation, in the case when both lines have periods 2ζ , is given by $\xi + i\eta = f(x + jy)$

Card 1/11

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D201/D303

The characteristic impedance ...

which transforms the outside area in Fig. 1 into the inner area of Fig. 2.

Fig. 1.

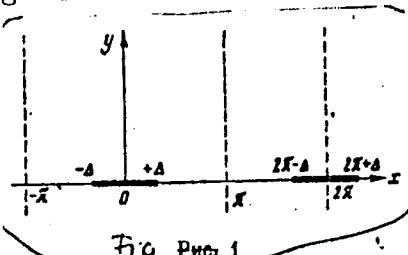
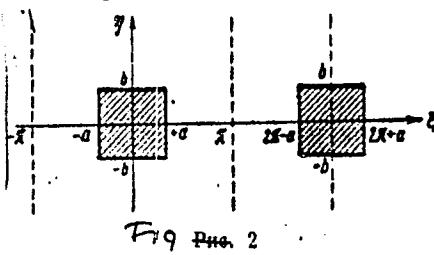


Fig. 2.



This function for $-\pi \leq x, \xi \leq \pi; 0 \leq y, \eta$ can be represented as

$$\xi + i\eta = C \int_0^{\sin(\frac{x+iy}{2})} \frac{dt}{\sqrt{(1-t^2)(1-t^2)}} dt + jb, \quad (1)$$

Card 2/11

The characteristic impedance ...

S/109/61/006/005/016/027
D201/D303

where

$$\frac{1}{k} = \sin \frac{\Delta}{2}; \quad 0 < \frac{1}{n} < \frac{1}{k}.$$

Considering that

$$\sqrt{2 \arcsin \frac{\pm 1}{x}} = j(b \pm a), \quad j(\pm \Delta) = \pm a \quad \text{and} \quad j(\pm \pi) = \pm \pi,$$

a system of a single parameter Δ curves $a(\mu)$; $b(\mu)$, $c(\mu)$ can be obtained from the system of equations

$$\begin{aligned} a &= C \frac{(\mu - v)}{\gamma \sqrt{l}} \left[(1 - x^4 \mu) F\left(\frac{\pi}{2}; \sqrt{\frac{m}{l}}\right) + (\mu - v) x^2 \Pi\left(\frac{\pi}{2}; \sqrt{\frac{m}{l}}; -\frac{1}{l}\right) \right], \\ \pi - a &= C \frac{(\mu - v)}{\gamma \sqrt{l}} \left[(x^2 v - 1) F\left(\frac{\pi}{2}; \sqrt{\frac{m}{l}}\right) + x^2 (\mu - v) \Pi\left(\frac{\pi}{2}; \sqrt{\frac{m}{l}}; -m\right) \right]. \quad (2) \\ b &= \frac{1}{2} C \frac{(\mu - v)}{\gamma \beta n} \left\{ \left[x^2 \mu - 1 - x^2 \frac{(\mu - v) \sqrt{ml}}{\sqrt{ml} - 1} \right] F\left(\frac{\pi}{2}; \frac{1}{n^2}\right) + \right. \end{aligned}$$

Card 3/11

S/109/61/006/005/016/027

The characteristic impedance ...

D201/D303

$$+ \frac{2x^2}{\sqrt{ml-1}} \left[\frac{\pi}{2} ; \frac{1}{n^2} ; - \left(\frac{\sqrt{ml}-1}{\sqrt{ml}+1} \right)^2 \frac{1}{n^2} \right]. \quad (2)$$

where X

$$F\left(\frac{\pi}{2}; k\right) \text{ and } \Pi\left(\frac{\pi}{2}; k; n\right)$$

are the complete elliptic integrals of the first and of the third order respectively. In the extreme case when $a = 0$ (Fig. 2) the conformal transformation reduces to the simple

$$\xi + j\eta = \arcsin \left[\frac{2 \cos(x+jy)}{1+\cos\Delta} + \frac{1-\cos\Delta}{1+\cos\Delta} \right] - \frac{\pi}{2} \quad (1')$$

and b is determined from

Card 4/11

The characteristic impedance ...

S/109/61/006/005/016/027
D201/D303

$$b = \text{arc ch} \frac{\sqrt{2 - \cos \Delta}}{1 + \cos \Delta} \quad (2')$$

It is simpler to determine b and C as functions of a with the parameter Δ . Curves $b = b(a)$ (Fig. 3) determine the families of multiwire lines consisting of rectangular conductors. The characteristic line having the width of the tape 2Δ . The characteristic resistance of the tape line can be represented in the form of

$$K_t(s) = K_{t_0}(s) R_t(s) \quad (3)$$

where S - phase shift over one period in the plane of the cross-section, divided by two and \times

$$K_{t_0}(s) = \frac{1}{4} \sqrt{\frac{\epsilon}{\mu} \cdot \frac{1}{s\pi}}$$

$R_t(s)$ - a function dependent on S and the parameter Δ . The graph

Card 5/11

The characteristic impedance ...

S/109/61/006/005/016/027
D201/D303

Fig. 3.

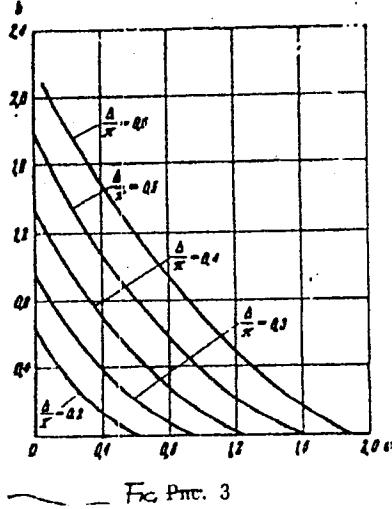


Fig. 3.

Card 6/11

S/109/61/006/005/016/027
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The characteristic impedance ...

of this function is given. The attenuation constant α is determined from

$$2\alpha = \frac{P}{W} \quad (4)$$

where P - losses per unit length; W - energy flow through the strip limited by lines $x = -\pi$ and $x = \pi$ (Figs. 1 and 2 above). Substituting into (4) the explicit expressions for P and W

$$2\alpha = R \sqrt{\frac{\mu}{\mu}} \frac{2 \sin(s\pi) L}{\pi^2 P_{-s}(\cos \Delta) P_s(-\cos \Delta)}, \quad (5)$$

is obtained, where R - specific surface resistance of the conductor; $P_u(v)$ - Legendre function at cross-section $-1 < v < 1$; L is determined by the shape of the conductor of the retarding system, obtained by means of the conformal transformation from the tape conductor system, the width of which is 2Δ . The period of both

Card 7/11

S/109/61/006/005/016/027
D201/D303

The characteristic impedance ...

systems is 2π . For rectangular conductors L_r is given by

$$L_{rect} = \frac{2k^2(\mu - v)}{\gamma C} \left[\frac{F\left(\frac{\pi}{2}; \sqrt{\frac{m}{l}}\right)}{\sqrt{l}} + \frac{2F\left(\frac{\pi}{2}; \frac{1}{n}\right)}{n\beta} \right]. \quad (7)$$

Now if α_0 is the attenuation constant of a TEM wave along an anisotropically conducting plane having the surface resistivity R along the direction of propagation and an infinite resistance in directions perpendicular to it, then X

$$2\alpha_0 = R \sqrt{\frac{\mu}{\epsilon}} s.$$

and denoting α/α_0 by $R_\alpha(s)$ then

$$\overbrace{R_\alpha(s)}^{2L \sin(s\pi)} = \frac{2L \sin(s\pi)}{\pi^2 s P_{-s}(\cos \Delta) P_{-s}(-\cos \Delta)}. \quad (6)$$

follows. It is seen from (7) that L depends on Δ and a . The re-

Card 8/11

S/109/61/006/005/016/027
D201/D303

The characteristic impedance ...

sistance of a rectangular conductor line can be therefore split into two factors

$$R'_\alpha(s) = \frac{2L' \sin(s\pi)}{\pi^2 s P_{-s}(\cos \Delta) P_{-s}(-\cos \Delta)}$$

and

$$\frac{L_{\text{rect}}}{L'},$$

where L' depends only on Δ . For L' the value of L_{round} for round wires (Ref. 1: Op.cit.) -

$$L_{\text{round}} = \left(\frac{1}{M \sin \frac{\Delta}{2}} \right) F\left(\frac{\pi}{2}; k_1\right),$$

is taken, where

Card 9/11

S/109/61/006/005/016/027
D201/D303

The characteristic impedance ...

$$M = \frac{1}{1 + \frac{2}{\Delta} \operatorname{arctanh} \left(\sec \frac{\Delta}{2} \right)}; \quad k_1 = \frac{\left[M^2 - (1 - M)^2 \cos^2 \frac{\Delta}{2} \right]^{1/2}}{M}.$$

For this L' , $R'_{\alpha_r}(s) = R_{\text{around}}(s)$, or is equal to the ratio of the attenuation factor of a system with round wires having radius $r = (1 - m)\Delta$ to α_0 . The graphs of $R_{\text{around}}(s)$ are given as well as graphs of the ratio L_r/L_{round} as a function of a with Δ as parameter. Thus $R_{\alpha_r}(s)$ can be determined, using these latter graphs from formula (8) ~~X~~

$$R_{\alpha_r}(s) = R_{\text{around}}(s) \frac{L_r}{L_{\text{round}}} \quad (8)$$

There are 6 figures and 1 non-Soviet-bloc reference. The reference
Card 10/11

The characteristic impedance ...

S/109/61/006/005/016/027
D201/T303

to the English-language publication reads as follows: Chiao-Min
Chu, J. Appl. Phys., 1958, 29, 88.

SUBMITTED: April 28, 1960

Card 11/11

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42120

S/109/62/007/010/007/012
D266/D308

7.1679

AUTHORS: Sukhov, V.A., and Ryzhenko, B.F.

TITLE: Calculation of the field of a travelling TEM wave propagating along a periodical multiconductor line of circular cross-section

PERIODICAL: Radiotekhnika i elektronika, v. 7, no. 10, 1962,
1769 - 1779

TEXT: The purpose of the paper is to calculate the field of the TEM wave by solving an analog electrostatic problem (V.A. Sukhov, Radiotekhnika i elektronika, 7, 10, 1962, 1780). It is assumed that the circular conductors are situated above a plane of infinite conductivity (in the second section of the paper hints are given for finding the solution in the absence of the plane) and there are N conductors in a period. The coordinate system is chosen in such a way that the y axis is perpendicular to, and the x and z axes lie in, the plane of infinite conductivity. The direction of the z axis is parallel with the conductors. Denoting the coordinates of the center of the kth conductor by ξ_k and η_k and the radius of same

Card 1/3 *109/62/007/010/007/012

S/109/62/007/010/007/012
D266/D308

Calculation of the field of a ...

conductor by R_k , assuming further that the phase difference per period, Ψ can be written in the form $\Psi = 2\pi Q/P$ (where Q and P are integers, $0 < Q < P$ and $P \neq 0$) and making use of the formulas derived in the above quoted reference the following expression is obtained for the potential

$$\varphi(x, y) = \frac{1}{4\pi\varepsilon} \sum_{k=0}^{N-1} R_k \int_0^{2\pi} p(0_k) \sum_{m=0}^{P-1} \exp[i\psi m] \times \\ \times \ln \left\{ \frac{\operatorname{sh} \left[\frac{A_{m,k} + R_k \exp(i0_k)}{2P \frac{d}{2\pi}} \right] \operatorname{sh} \left[\frac{A'_{m,k} + R_k \exp(-i0_k)}{2P \frac{d}{2\pi}} \right]}{\operatorname{sh} \left[\frac{B_{m,k} + R_k \exp(i0_k)}{2P \frac{d}{2\pi}} \right] \operatorname{sh} \left[\frac{B'_{m,k} + R_k \exp(-i0_k)}{2P \frac{d}{2\pi}} \right]} \right\} d\theta_k, \quad (3)$$

where

$$A_{m,k} = \eta_k + y + i(md + x - \xi_k);$$

$$B_{m,k} = \eta_k - y + i(md + x - \xi_k);$$

ρ_k - charge density on the k^{th} conductor. The charge density can be
Card 2/3

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D266/D308

Calculation of the field of a ...

obtained from an integral equation, using the fact that the potential must be constant on the conductors. In a practical case $\rho(\theta_k)$ is expanded into a Fourier series and only the first few terms are taken into account. In the second part of the paper computer results are presented which facilitate the evaluation of a given slow wave structure. For this purpose the interaction impedance and attenuation for a given space harmonic are expressed with the aid of functions plotted in several diagrams. The dispersion characteristic and group velocity can also be calculated if the loading of the conductors is known. There are 7 figures.

SUBMITTED: December 18, 1961

Card 3/3

S/109/62/007/010/008/012
D266/D308

A method for calculating the ...

at the point $(\xi(s) + nd, \eta(s))$, $\xi(s)$, $\eta(s)$ - coordinates of a point on L_0 , Ψ - phase shift between two neighboring elements. The formal solution for the potential is

$$\begin{aligned}\varphi(x, y) &= \frac{1}{4\pi e} \int_{(L_0)} \sum_{n=-\infty}^{\infty} \rho_0(s) \exp(-in\Psi) \ln\left(\frac{r'_n}{r_n}\right)^2 ds = \\ &= \frac{1}{4\pi e} \int_{(L_0)} \rho_0(s) J[x - \xi(s), y, \eta(s), \Psi] ds,\end{aligned}\quad (1)$$

where r_n and r'_n - distance from the point (x, y) to $(\xi(s) + nd, \eta(s))$ and $(\xi(s) + nd, -\eta(s))$ respectively. (1) is first formulated intuitively; later a rigorous proof is given that $\varphi(x, y)$ is the potential function corresponding to the charge distribution. Using the fact that the potential must be constant on L_0 , the following integral equation is obtained

$$\varphi_0(s_1) = \frac{1}{4\pi e} \int_{(L_0)} \rho_0(s) J[x(s_1) - \xi(s), y(s_1), \eta(s), \Psi] ds, \quad (14)$$

Having solved the above equation all the properties of the slow wave structure can be determined. The method can also be used when there

Card 2/3

SUKHOV, V.A.; RUSAKOV, A.B.

Subcutaneous fistulenterostomy in alveolar echinococcosis of
the liver. Vest. Khir. 91 no.10:115 O '63.

(MIRA 17:7)

i. Iz Moskovskogo okruzhnogo voyennogo gospitalya.

S/0109/64/009/003/0469/0482

ACCESSION NR: AP4024728

AUTHOR: Sukhov, V. A.

TITLE: Calculating the field of a traveling TEM wave which propagates over a periodic multi-tape-conductor line

SOURCE: Radiotekhnika i elektronika, v. 9, no. 3, 1964, 469-482

TOPIC TAGS: TEM wave, electromagnetic wave, TEM wave propagation, tape conductor line, multiple tape conductor line

ABSTRACT: The principal shortcomings of previous works on TEM wave field calculation have been that the calculation methods suggested cannot be used for the case of several tapes per period and the presence of a screen. Hence, the present article first solves the problem of distribution of charges among the tapes forming the system period and then solves the problem of TEM wave propagation. The approximate charge distribution among the tapes is found

Card 1/2

L 21560-66

ACC NR: AP6009794

Table 1. Results of measuring induction periods
of benzimidazole derivatives

Number	R	mp, °C	Induction period in min for con- centration M/kg			
			0.02	0.05	0.07	1.0
I	-SH	305-308 [1]	55	120	210	265
Ia		228-230 [1]	15	190	270	295
II	-CH ₂ SH	156-158 [2]	45	55	70	80
IIIa		180-181 [1]	45	55	50	80
III	-CH ₂ (SH)CH ₂ CH ₃	222	10	50	100	150
IV	-CH(SH)CH ₂ CH ₂ CH ₂ CH ₃	209-210	20	25	30	40
V		266-267	12	15	18	35
VI		206-209 [1]	15	38	50	80

Card 2/5

J. 61500-66

ACC NR: AP6009794 Table 1. (Cont.)

Number	R	mp, °C	induction period in min. for con- centration M/kg				
			0.02	0.05	0.07	1.0	
VII	—H ₂ C—S—N(=O)C ₆ H ₄ —O—	97—98 [2]	20	40	60	90	
VIII	—H ₂ C—S—NH—C ₆ H ₄ —O—	218—219 [3]	20	70	80	100	
IX	—H ₂ C—S—N(=O)C ₆ H ₄ —NH—	245—247 [3]	30	140	220	300	
X	—H ₂ C—S—CH ₂ —NH—C ₆ H ₄ —O—	182—183	20	75	90	100	
XI	—CH ₂ —S—CH ₂ —S—CH ₂ —C(=O)NHC ₆ H ₄ —O—	219—220 [3]	10	30	40	40	
XII*	—CH ₂ —S—CH ₂ —S—CH ₂ —C(=O)NHC ₆ H ₄ —O—CH ₃	207—208	20	30	80	90	

Card 3 / 5

L.21560-66
ACC NR: AP6009794

The authors found that in the presence of hydroperoxides some amines react with mercaptans to form sulfenamides. They suggest that this may account for the synergistic effects observed when mixtures of amines and mercaptans are used as antioxidants. Orig. art. has: 2 figures and 1 table.

[VS]

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SUB CODE: 11/ SUBM DATE: 12Nov63/ ORIG REF: 006/ OTH REF: 001
ATD PRESS: 4219

Card 5/5

SUKHOV, V. B.; PLATONOV, Yu. P.; KRUCHINENKO, V. G.

"Electromechanical Device for Computing the Mean Moments of the Passage of Stars During Observations," The International Association of Geodesy; Abstracts of the Reports at the XI General Assembly of the International Union of Geodesy and Geophysics, Moscow, Izd-vo AN SSSR, 1957, 63 p.

A photoelectric amplifier makes it possible to measure the duration of two parts of a contact (rectangular output signal) into which it is divided by a pulse from a clock. Computing the moment of a star's passage is accomplished by a formula given in the text. Observations could also be conducted of high magnitude stars producing deformed edges of the contacts. Means of increasing the efficiency of the device were also indicated.

33-4-10/19

AUTHOR: Kruchinenko, V. G., Platonov, Yu. P. and Sukhov, V. B.

TITLE: An electronic mechanical device for determining the
mean moments of stellar transits during observations.
(Elektronno-mekhanicheskoye vychislitel'noye ustroystvo
dlya polucheniya srednikh momentov prokhozdeniy zvezd
vo vremya nablyudeniy)

PERIODICAL: Astronomicheskiy Zhurnal, 1957, Vol. 34, No.4, pp.609-612
(USSR)

ABSTRACT: In the astrometrical laboratory of the Pulkovo Observatory a device was designed and constructed which enables the evaluation of the mean moments of stellar transits during observations by averaging the moments of contacts of a photo-electric amplifier or a contact micrometer. To increase the efficiency of the scheme, an electro-mechanical calculator-printer was set up and this transmits the values of \bar{T} given by Equation 1 either to a printing device or a hole puncher. The calculating block employs decatron trochotrons (type LP-4) allows the results of observations to be reduced more quickly.

There are 2 figures, no tables and no references.

SUBMITTED: December, 14, 1956.

Card 1/2

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820011-4

SUKHOV, V.B.; PLATONOV, Yu.P.

Pulkovo photoelectric unit of the time service operating
with an a.c. supply. Izv.GAO 21 no.2:52-70 '58.
(MIRA 13:4)

(Photoelectric measurements) (Time)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820011-4"

5.1200

78024
SOV/33-37-1-24/31

AUTHORS: Ishchenko, M. A., Platonov, Yu. P., Sukhov, V. B.

TITLE: An Oscillographic Device for the Reception of Time Signals

PERIODICAL: Astronomicheskiy zhurnal, 1960, Vol 37, Nr 1,
pp 156-160 (USSR)

ABSTRACT: When time signals are received with widely used counters and chronoscopes, the errors are of the order of 1.5×10^{-3} sec. The chief reason is that it is not possible to distinguish visually the signals which are free from distortion. The authors designed a device which uses a screen attached to an electronic tube, and the radio wave received is spread along the circumference of this screen. The screen is 31 cm in diam, the electron tube is of long-duration afterglow type (31L033), and the speed of the ray is 10 rps. One division on the screen is 8 mm, corresponding to 1 millisecond. The shapes of one-second signals

Card 1/2

An Oscillographic Device for the Reception
of Time Signals

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and of rhythmic signals are easily seen on the screen, and undistorted signals can easily be chosen. This device does not use any screening filters which suppress radio noises. After one month of thorough checking the device was put in operation on November 25, 1958. The errors of time signals received with this device vary from 1.3 to 0.3 in units of 0.001 sec. The authors express their thanks to the Collective of the Time Service of the Central Observatory and especially to P. V. Nazarov for their active participation in this work. There are 1 table; and 3 figures.

ASSOCIATION: Central Astronomical Observatory of the Academy of Sciences of USSR (Glavnaya astronomicheskaya observatoriya Akademii nauk SSSR)

SUBMITTED: August 5, 1959

Card 2/2

NIKOL'SKIY, V.V.; SUKHOV, V.G.

Ritz method for hollow systems with anisotropic medium. Radiotekhnika i elektron, 6 no.10:1677-1684 O '61. (MIRA 14:9)
(Wave guides) (Electric resonators)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820011-4

NIKOL'SKIY, V.V.; SUMOV, V.G.; KORMIYENKO, D.I.; OLEOV, V.P.

Calculation of a rectangular waveguide with a longitudinally magnetized ferrite using an eigenfunction method. Radiotekh. i elektron. 9 no.8:
1345-1356 Ag '64. (MIRA 17:10)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820011-4"

ACCESSION NR: AP4043668

S/0109/64/009/008/1345/1356

AUTHOR: Nikol'skiy, V. V.; Sukhov, V. G.; Korniyenko, D. I.; Orlov, V. P.

TITLE: Calculation of a rectangular waveguide containing a longitudinally-magnetized ferrite by the eigenfunction method

SOURCE: Radiotekhnika i elektronika, v. 9, no. 8, 1964, 1345-1356

TOPIC TAGS: waveguide, ferrite, longitudinally magnetized ferrite, ferrite containing waveguide

ABSTRACT: Based on the Galerkin-Ritz theory, a method for calculating the propagation constants of fields in a rectangular waveguide partially filled with a longitudinally-magnetized ferrite is developed. The problem is solved as a boundary problem for the waveguide cross-section; Maxwell's equations are used. Phase shift and attenuation are calculated for a wide range of ferrite characteristics, sizes and configurations of the system. Programming time and

Card 1/2

ACCESSION NR: AP4043668

techniques are discussed as well as the accuracy of calculation. Fundamental characteristics of the system are clarified by isolating various modes and by analyzing their spectral composition. A few numerical examples are calculated and data presented in graphical form. Orig. art. has: 15 figures, 9 formulas, and 1 table.

ASSOCIATION: none

SUBMITTED: 22May63

ENCL: 00

SUB CODE: EC

NO REF SOV: 005

OTHER: 005

Card 2/2

REF ID: A6706202 EWT(1)/EFC-4/CED-2/EMA(h) PM-4/Pec-4/PI-4/P4-4/Pab
ACCESSION NR: A65010042 UR/6109/65/010704/0618/0625 42
B

AUTHOR: Nikol'skiy, V. V.; Sukhov, V. G.; Korniyenko, D. I.; Orlov, V. P.

TITLE: Designing a rectangular waveguide containing a longitudinally-magnetized ferrite by the eigenfunction method

SOURCE: Radiotekhnika i elektronika, v. 10, no. 4, 1965, 618-625

TOPIC TAGS: rectangular waveguide, waveguide, ferrite waveguide

ABSTRACT: This is a continuation of a previous authors' work (Rad. i elektronika, 1964, v. 9, no. 8, 1345); this article presents a physical interpretation of the theoretical results and some calculations of a waveguide containing a longitudinally magnetized ferrite bar. The propagation constants are real for quasi-H₁₀ and quasi-H₀₁ modes; the propagation constants for these and other propagating modes are tabulated. The quasi-H₁₀ and quasi-H₀₁ modes are calculated with opposite directions of rotation; the ellipticity depends

Card 1/2

L47062-65
ACCESSION NR: AP5010092

the ferrite size and parameters and is not constant over the cross-section area. Similarity of physical processes in the rectangular-waveguide ferrite phase-shifter and the circular-waveguide Faraday polarization-plane rotator is analyzed. The structure of the ferrite phase-shifter, its reciprocity characteristics, losses, and Q-factor are described. Orig. art. has: 6 figures and 2 tables.

ASSOCIATION: none

SUBMITTED: 09 Mar 64

ENCL: 00

SUB CODE: EC

NO REF Sov: 001

OTHER: 001

me
Card 2/2

L 7813-66 EWT(d)/EWT(1)/T/EWA(h) IJP(c)

ACC NR: AP5027622

SOURCE CODE: UR/0109/65/010/011/1992/1999

AUTHOR: Nikol'skiy, V. V.; Sukhov, V. G.; Korniyenko, D. I.; Orlov, V. P.

ORG: none

TITLE: Calculation of a rectangular waveguide filled with ferrite or ferrite and dielectric and magnetized longitudinally

SOURCE: Radiotekhnika i elektronika, v. 10, no. 11, 1965, 1992-1999

TOPIC TAGS: rectangular waveguide, ferrite layer waveguide, dielectric layer waveguide

ABSTRACT: The method of eigen-functions used by the authors for designing rectangular waveguides containing ferrite rods (Rad. i elektronika, 1964, 9, 8, 1345, and 1965, 10, 4, 618) is extended over these configurations: two ferrite strips adjoining the wider walls of the waveguide; same, adjoining the narrower

Card 1/2

UDC: 621.372.853.2.001.24

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ACC NR: AP5027622

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walls; ferrite rod in a waveguide filled with a dielectric of $\epsilon \neq 1$; hollow ferrite rod; dielectric strip between two ferrite strips; ferrite strip between two dielectric strips. Curves of the propagation constant, losses, etc., for quasi- TE_{o1} and quasi- TE_{10} modes calculated on a digital computer are presented. The mathematical interpretation of the electric and magnetic fields in a ferrite-containing waveguide is discussed. Orig. art. has: 8 figures, 3 formulas, and 4 tables.

SUB CODE: 09 / SUBM DATE: 20Jul64 / ORIG REF: 003

Card 2/2

MAKSIMENKO, Ivan Kirillovich; SUKHOV, V.I., zasl. deyatel' nauk Turkmeneskoy SSR, otd. red.; SMETANOVA, S.D., red. izd-va; AVAGIMOVA, S.G., red. izd-va; KASPAR'YANTS, L.T., tekhn. red.

[Breeding cotton varieties with fine and naturally colored fibres in Turkmenistan] Seleksiia tonkovoloknistykh i s prirodno okraschennym voloknom sortov khlopcatnika v Turkmenistane. Ashkhabad, Izd-vo Akad. nauk Turkmeneskoi SSR, 1958. 253 p. (MIRA 14:9)
(Turkmenistan—Cotton breeding)

KOBYTEV, S.I.; SUKHOV, V.I., otv.red.; MORGUNOV, Yu.N., red.;
BERDYLEV, B., tekhn.red.

[Melons of Turkmenistan; from the experience of the Chardzhou
Agricultural Experiment Station of the Turkmen Agricultural
Research Institute] Dyni Turkmenistana; iz o'zyta raboty
Chardzhouskoi sel'skokhozialeistvennoi optytnoi stantsii Turk-
menskogo nauchno-issledovatel'skogo instituta zemledeliia.
Ashkhabad, M-vo sel's.khoz.Turkmenskoi SSR, 1959. 18 p.
(MIRA 14:3)

(Turkmenistan--Melons)

MAKSIMENKO, Ivan Kirillovich; KARAMOV, S.B., red. izd-va; SUKHOV,
V.I., red.; FLUTKOVA, S.G., tekhn. red.

[Soviet fine-fiber cotton 8763I, a new variety] Novyi sort
sovetskogo tonkovoloknistogo khlopchatnika 8763I. Ashkhabad,
Izd-vo Akad. nauk Turkmenskoi SSR, 1961. 31 p.
(MIRA 15:11)

(Turkmenistan--Cotton--Varieties)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820011-4

SILINOV, V. T.

25514

Otdor Naseleniykh Punktov na Millionnoy Karte SSSR. Soornik Nauch. - Tekhn. i
Prilozov Statisticheskoy Geodesii, Kartografii, Fotografii, Aerofotografii i Gravimetrii,
VII. 23, 1949, s. 39 - 43

SO: LITCIS: No. 34

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820011-4"

SPP V, V. I.

29505

С Невом тиже Научной Party. Trudy Tsyentr. Nauch-isslyed. in-ta Gyeodyeelii,
Akademyemki I Kartografii, vyp. 55, 1949, s. 18-24

So: Lutopis' No. 40

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820011-4

SUKHOV, V.I.
SUKHOV, V.I., doktor tekhn.nauk

Theoretical principles in cartographic generalization. Sbor.st.
(MIRA 10:12)
po kart.no.4:9-19 '53.
(Cartography)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820011-4"

SUKHOV, VLADIMIR IVANOVICH

~~SUKHOV, Vladimir Ivanovich~~, professor doktor tekhnicheskikh nauk; YUROVSKIY, Ya.I., dotsent, kandidat tekhnicheskikh nauk; LIODT, G.N., professor, doktor geograficheskikh nauk [deceased]; NIKISHEV, M.I., starshiy nauchnyy sotrudnik, kandidat geograficheskikh nauk; OZEROV, V.N., redaktor; SOKOLOVA, N.N., tekhnicheskiy redaktor

[Compiling agricultural maps] Sostavlenie sel'skokhoziaistvennykh kart. Pod red. V.I.Sukhova. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1957. 263 p.
(Agriculture--Maps)

KUROPATENKO, F.K., dotsent, kand. tekhn. nauk; SUKHOV, V.I., prof., doktor
tekhn. nauk, red.; PAVLOVSKAYA, Ye.M., tekhn. red.

[Soil mapping of zones covered by machine-tractor stations and
administrative regions] Zemleustroitel'noe kartografirovaniye zon
deiatel'nosti MTS i administrativnykh raionov. Pod red. V.I.Su-
khova. Gorki, M-vo sel'.khoz. SSSR, 1957. 161 p. (MIRA 14:8)
(Agriculture—Maps) (Cartography)

SUKHOV, V.I.

BOCHAROV, Mikhail Kuz'mich; NIKOLAYEV, Sergey Aleksandrovich; SUKHOV, V.I.,
red.; SHAMAROVA, T.A., red.izd-va; ROMANOVA, V.V., tekhn.red.

[Mathematical and statistical methods in cartography] Matematiko-
statisticheskie metody v kartografii. Moskva, Izd-vo geodez.lit-ry.
(MIREA 11:1)
1957. 157 p.

(Cartography)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820011-4

SUKHOV, Vladimir Ivanovich; MALEV, P.I., red.; SHAMAROVA, T.A., red. izd-va;
ROMANOVA, V.V., tekhn.red.

[Compiling and editing general maps] Sostavlenie i redaktirovaniye
obshchego geograficheskikh kart [n.p.] Izd-vo geodez. lit-ry, 1957.
(MIRA 11:2)
279 p.
(Cartography)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820011-4"

SUKHOV, V.I., doktor tekhn.nauk, prof.

Achievements and scientific tasks of Soviet cartography.
Trudy MIIGAIK no.29:11-26 '57. (MIRA 11:5)

1.Kafedra sostavleniya i redakirovaniya kart Moskovskogo instituta
inzhenerov geodezii, aerofotos"zemki i kartografii.
(Cartography)

CHUSOV, Vladimir Luk'yanovich; SUKHOV, V.I., prof., retsenzent; SELIKHANOVICH,
V.G., dotsent, red.; SHAMANOVA, T.A., red.izd-va; ROMANOVA, V.V.,
tekhn.red.

[Topographical drawing] Topograficheskoe charchenie. Izd.2..
ispr. i dop. Moskva, Izd-ve geodez.lit-ry, 1958. 115 p.
(Topographical drawing) (MIRA 12:2)

Suk Hou, U. I.

TITLE:	Scientific-Technical Conference of the Ministry of Defense of the USSR and the Central Institute of Geodesy, Cartography and Aerophotogrammetry Moscow, April 22-26, 1959.
PERIODICAL:	Investigativnye obozreniya. - Gosudarstvennoye izdatelstvo inostrannoy literatury. - 1959. - Nomer 5. - S. 144 - 166 (ISSN 0368-5053).
ABSTRACT:	The periodic scientific-technical conference of the Muskova I. Kartograficheskogo Instituta imeni Akademika V. M. Kondratenko, Gidroelektronika i Radioelektronika i Kartograficheskogo Instituta imeni A. I. Zarubina, held on April 22-26, 1959, with the participation of 500 persons. 51 lectures were delivered. The introductory speech was held by Professor A. I. Zarubin. Candidate of Philosophical Sciences A. I. Zarubin lectured on "The Influence of Materialistic Philosophy"! Candidate of Technical Sciences V. M. Kondratenko on "Radioelectronics and Geodetic Sciences". Candidate of Technical Sciences G. V. Krasnitskii on "Accuracy of the Solution of the Juvencus Position Computation Equation Systems". Post-graduate Student S. D. Draboty reported "On the Solution of Linear Systems in the Computation of Geodetic Networks". Doctor V. M. Kondratenko dealt with "The Experience in the Application of Photogrammetric Methods in the Solution of the Problem of Error Computation in Photogrammetry". Doctor of Technical Sciences A. V. Kostenko on "The Influence of the Boundary Error on the Accuracy of Solutions of Linear Equation Systems". Post-graduate Student S. D. Draboty reported "On the Solution of Linear Systems in the Computation of Geodetic Networks". Doctor V. M. Kondratenko dealt with "The Experience in the Application of Photogrammetric Methods in the Solution of the Problem of Error Computation in Photogrammetry". Doctor of Physical and Mathematical Sciences B. I. Tsvetkov, reported on "The Generalization of the Formula of Vertical Surveying and the Application of Technical Sciences A. M. Pavlenko-Merkel lectured on "More Intensive Application of Photogrammetric Methods in the Application of Artificial Earth Satellites". Candidate of Technical Sciences A. P. Ruzskikh reported "Detailed Description of the Stereocomparator with Correctors". Scientist A. S. Vasilev on "Photogrammetric Methods in the Application of Photogrammetric Clouds". Candidate of Technical Sciences A. I. Tsvetkov spoke on "The Application of Photogrammetric Polygons with Short Baseline". Doctor of Physical and Mathematical Sciences B. I. Tsvetkov, reported on "The Generalization of the Formula of Vertical Surveying and the Application of Technical Sciences A. M. Pavlenko-Merkel lectured on "More Intensive Application of Photogrammetric Methods in the Application of Artificial Earth Satellites". Candidate of Technical Sciences A. P. Ruzskikh reported "Detailed Description of the Stereocomparator with Correctors". Scientist A. S. Vasilev on "Photogrammetric Methods in the Application of Photogrammetric Clouds". Candidate of Technical Sciences A. I. Tsvetkov spoke on "The Generalization of the Formula of Vertical Surveying and the Application of Technical Sciences A. M. Pavlenko-Merkel lectured on "More Intensive Application of Photogrammetric Methods in the Application of Artificial Earth Satellites". Assistant Ye. F. Arshakov spoke on the "Computation of the Aerial Camera Configuration". Doctor of Technical Sciences N. B. Ruzskikh reported "Detailed Description of the Photobathymetric Camera". Doctor of Technical Sciences N. B. Ruzskikh spoke on "Large-Scale Photobathymetric Surveying Operations". Doctor of Technical Sciences N. B. Ruzskikh on the Problem of Computation of the New Map on the Scale of 1:1000000. Doctor of Technical Sciences A. I. Tsvetkov spoke on "Aerial Depots in the USSR and Their Reproduction on Geometric Maps". Assistant Ye. F. Arshakov spoke on "The Method of Geographic Investigation on the Field During the Preparatory Expedition Acquired by the Meteorites". Assistant A. Z. Tolokonnikov spoke on "The Problem of Identifying the Reliability of Representations of the Earth's Surface Object (from the Working Meteorite Expedition of the MIIGA 1958)". Assistant A. Z. Tolokonnikov dealt with "The Problem of Identifying the Reliability of Representations of the Flat Inhabited Territory on the Topographic Map on the Scale of 1:100000". Candidate of Technical Sciences In. S. Bilibin spoke on "Maps of Cultivated Areas in the Cooperative Collective Farms". Candidate of Technical Sciences L. I. Slobodchikov spoke on "Qualities". Candidate of Technical Sciences A. I. Tsvetkov dealt with "A. S. Popov - Scientist, Inventor, Radiologist (On the 100th Birthday of A. S. Popov)". Senior Lecturer M. I. Matrosov lectured on "Mirror Lens Objectives With Considerable Intensity". Professor A. G. Sazanov reported on "The Problem of Computation of Photogrammetric Measurements in the Sea Areas of the USSR and the Increase of Accuracy in the Sea Areas of Photogrammetric Quantities". Candidate of Technical Sciences V. A. Aspil'yants dealt with "Methods of Measuring Intertidal Zones, Computing Optical Main Characteristics of Aerial Cameras, Objective With Dropping Atmospheric Pressure and Temperature". Senior Lecturer A. M. Masarov lectured on "Vertical Axis Systems of High-precision Optical Theodolites". Assistant Ye. S. Gov spoke on "Flighting By the Aid of Telemeters With Slave Plates". Post-graduate Student P. P. Poliarov dealt with "The Automation of Measurements on A Pair of Stereoscopic Pictures". At the Plenary Session held on April 26 the Chair of the Glavgeodez upravlyayushchiy generali i kartografi M. S. Sogolov (Ministry of Internal Affairs of Gosudarstvennoye izdatelstvo inostrannoy literatury) spoke on "The Seven-Year Plan and Cartography". A. M. Masarov lectured on "The Seven-Year Plan and the Development of Photopropaganda and Cartographic Works".
CARD #:	Card 1/3
	Card 2/3
	Card 3/3

Page 4/5

3(2), 3(4)

Sov/6-19-6-21/22

AUTHOR: None Given

TITLE: Chronicle (Chronika)

PERIODICAL: Geodesiya i kartografiya, 1959, Nr 6, pt 74-75 (USSR)

ABSTRACT:

At the Moscow Institute of Geodesy, Aerofotodesiatvye, Aerial Survey and Cartographic Enginnering, the Ordinary Scientific Conference took place on April 22-23, 1959. A. I. Ivlev, Doctor Candidate of Philosophical Sciences, spoke on "The Outstanding Work of Materialistic Philosophy. A. M. Baranov, Chief of the Chairmen of University Geodesy i Kartografiya (State Administration of Geodesy and Cartography) spoke "On the Seven-year Plan for the Development of Topographic-Geodetic and Cartographic Work." The following reports were delivered in the geodetic section:

A. M. Palyulin, Professor "Some Integrals of the Surface Theorems and Their Application to the Mechanics of Artificial Satellites of the Earth." - A. V. Kondratenko, Doctor, "Radioelectronics and Geodesy." - G. V. Berezinich, Doctor, "Accuracy in the Solution of Inverse Topographic Computations by the Coordinates of Different Geodetic Systems." - P. P. Chukin, Doctor, "Curvature in the Present State of Geodesy." - Yu. I. Kharlamov, Assistant, reported on "The Influence of Rounds Errors on the Accuracy of Solution of Linear Equations." - L. A. Danilova, Candidate of Technical Sciences, spoke on the Investigation of the Rules of Distribution of Errors in Generalising the Relief in Surveys." - M. D. Dzhidava, Post-Graduate Student, reported on the solution of linear equations for the adjustment of geodetic networks. - T. M. Korolevskiy, Doctor, demonstrated an apparatus designed by him for parallel traversing with a short constant vertical base. - The following reports were delivered in the aerophotogeodetic section: A. S. Tsvetkov, Doctor, reported on a parabolic reducer, an additional device to the stereocomparator. - N. M. Veselitskiy, Doctor, spoke on the possibility of generalising the formulas for the air survey of outlines and altitudes. - B. M. Rodionov and E. P. Zhdanov, Doctors, reported on "A Hand-operated Universal Geodetic Camera." - T. M. Dzhidava, Doctor, spoke on "A Computing Device for Aerial Photography." - Testing of the camera. - The post-graduate student of the Institute of Geodesy and Cartography presented some applications for the computation of crumplage of aerial cameras. - D. N. Sushkovsky, Post-Graduate Student, spoke on the use of rapid film recording for the investigation of aerial-camera shutters. - J. L. Griffiths, Engineer of the Geotekhnika Graflana RASHE, spoke "On Some Results and Tasks in the Formation of Large-scale Photocartographic Surveys." - The following reports were delivered in the cartographic section: V. I. Shukov spoke on the topographic edition. Professor V. I. Shukov spoke on the content of the new map on scales of 1:100,000-1:5,000,000. Professor A. F. Prokhorov spoke on "Material Resources of the USSR and Their Representation on Economic Maps." - G. I. Svidchenko, Assistant, reported on the method of Geographic Grid research during the preparatory editorial work at the object of cartography. - A. S. Streltsov, Assistant, reported on the improvement of rail-line representation of wooded land country on the cartographic edition. Professor V. I. Shukov spoke on the assistance map on a scale of 1:10,000-1:5,000. Professor A. F. Prokhorov spoke on "Material Resources of the USSR and Their Representation on Economic Maps."

Assistant, I. I. Melnikov, Doctor, spoke on the life of apparatus. - Yu. I. Matishkov, Doctor, spoke on the results of research on the preparation of the material for the cartographic edition. Professor I. G. Svetlichny, Doctor, spoke on the increase in accuracy in measuring physical quantities. - M. N. Mironov, Doctor, spoke on vertical aerial systems for highly accurate optical triangulation. - V. S. Usova, Assistant, on sighting with telescopes with zone plates.

P. P. Zaharov, Assistant, on the automation of the formation of image copies.

Card 2/4

Card 3/4

SUKHOV, V.I., prof., doktor tekhn. nauk; YUROVSKIY, Ya.I., dots.,
kand. tekhn. nauk; LIODT, G.N., prof., doktor geogr. nauk;
NIKISHOV, M.I., starshiy nauchnyy sotr., doktor tekhn. nauk;
BYKOVA, M.G., red.; DEYEVA, V.M., tekhn. red.

[Making agricultural maps] Sostavlenie sel'skokhozyaystvennykh
kart. Izd.2., perer. Moskva, Izd-vo sel'khoz. lit-ry, zhurna-
lov i plakatov, 1961. 310 p.
(MIRA 15:2)
(Agriculture—Maps)

PREOBRAZHENSKIY, Arkadiy Ivanovich, prof., doktor tekhn. nauk; SUKHOV,
Vladimir Ivanovich, prof., doktor tekhn. nauk; BILICH, Yuliya
Sergeyevna, doctsent, kand. tekhn. nauk; ISACHENKO, Anatoliy
Grigor'yevich, dots., kand. geogr. nauk; KARAVAYEVA, Zoya
Fedorovna; BASHLAVINA, Galina Nikolayevna, starshiy nauchnyy
sotr., kand. tekhn. nauk; MAUMOV, A.V., red.; SHAMAROVA, T.A.,
red. izd-va; SUNGUROV, V.S., tekhn. red.

[Composition and editing of special maps] Sostavlenie i redak-
tirovaniye spetsial'nykh kart. n.p. Izd-vo geodez. lit-ry,
(MIRA 15:2)
1961. 319 p.

1. Moskovskiy institut inzhenerov geodezii, aerofotos'emki i
kartografii (for Preobrazhenskiy, Sukhov, Bilich). 2. Lenin-
gradskiy gosudarstvennyy universitet (for Isachenko). 3. Re-
daktor Glavnogo upravleniya geodezii i kartografii Minister-
stva geologii i okhrany nedr SSSR (for Karavayeva). 4. TSentral'-
nyy nauchno-issledovatel'skiy institut geodezii, aeros'emki i
kartografii (for Bashlavina).

(Cartography)

SURHOV, V.I.

History of cartography and its problems. Trudy Inst.ist.est.i
tekst. 37:186-208 '61. (MIRA 14:10)
(Cartography)

SUKHOV, Vladimir Ivanovich, doktor tekhn. nauk; BOBNEVA, N.P.,
red.; RAKITIN, I.T., tekhn. red.

[Present-day aerial cartography] Aerokartografiia na-
shikh dnei. Moskva, Izd-vo "Znanie," 1963. 44 p. (Novoe
v zhizni, nauke, tekhnike. XII Seriia: Geologija i geogra-
fija, no.24) (MIRA 17:1)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820011-4

SUKHOV, V.I.; BOLDOV, V.G.; SELIFANOV, V.P.

Geodesy, photogrammetry, and cartography in the Universal
Decimal Classification. NTI no.10:30-32 '63.
(MIRA 17:1)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820011-4"

SUKHOV, V.I.; SHORIN, S.N.

Effect of the introduction of a combustible mixture on
the heat exchange in the combustion gas chamber. Gaz.
prom. 10 no.9:35-39 '65. (MIRA 18:11)

YERMACHENKO, P.S., inzh.; SUKHOV, V.N., inzh.

New forms of accounting and labor organization (the "Lugansk
Hour"). Ugol' prom. no.4:4-6 Jl-Ag '62. (MIRA 15:8)
(Lugansk Province--Coal mines and mining--Accounting)
(Socialist competition)

SUKHOV, V.N., inzh.; GRECHISHKIN, V.S., inzh.

Field trial of the A-2 mining unit. Ugol'. prom. no.4:21-23
Jl-Ag '62. (MIRA 15:8)

1. Trest "Krasnoluchugol".
(Coal mining machinery--Testing)

YERMACHENKO, P.S.; SUKHOV, V.N.

For communist mutual assistance. Ugol' Ukr. 7 no.6:34-35 Je '63.
(MIRA 16:8)

1. Upravlyayushchiy Krasnoluchskim trestom ugol'nykh predpriyatiy
Donbassa (for Yermachenko). 2. Nachal'nik otdela organizatsii truda
Krasnoluchskogo tresta ugol'nykh predpriyatiy Donbassa (for Sukhov).

SUKHOV, V.P., inzh.; SATAYEV, R.A., inzh.; ANDREYEV, V.V., inzh.

Using the ADS-1000-2 automatic machine for welding fillet
girth joints. Svar. proizv. no.8:31-32 Ag '64.

(MIRA 17:9)

1. Bakinskij mashinostroitel'nyy zavod im. Cardarova (for
Sukhov). 2. Azerbaydzhanskij nauchno-issledovatel'skiy institut
neftyanogo mashinostroyeniya (for Satayev, Andreyev).

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820011-4

MALKIN, Ya. A.; SUKHOV, V. P.

Drying lead dust in a fluidized bed. TSvet. met. 38 no.6:
28-33 Je '65. (MIRA 18:10)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820011-4"

L 4281-66 EST(m)/EFF(c)/EMP(j)/T BM

ACCESSION NR: AP5024104

UR/0138/65/000/009/0006/0008

678.048/049:546/547.07.004.12

AUTHOR: Yukel'son, I. I.; Slukin, A. D.; Sukhov, V. S.; Korbanova, Z. N.;
Fedotova, L. V.; Shestakova, O. G.

67

58

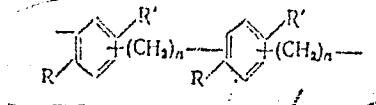
B

TITLE: Study of nitro derivatives of polyarylenealkyls as ingredients of rubber blends

SOURCE: Kauchuk i rezina, no. 9, 1965, 6-8

TOPIC TAGS: nitration, antioxidant additive, chain polymer, rubber chemical

ABSTRACT: The article deals with the synthesis of nitro derivatives of carbon chain aliphatic-aromatic polymers of the type



and their testing as softeners and antiaging agents for synthetic rubbers. A method of synthesis of these nitro derivatives, involving nitration of the polymers with mixtures of

Card 1/2

L 1281.65
ACCESSION NR: AP5024104

nitric and sulfuric acid at 30 - 40C, was developed at the Voronezh shinnyy zavod (Voronezh Tire Plant). Polyphenyleneethyls (containing 2.4, 3.0, 4.1, and 5.4% nitrogen) and polyethylphenyleneethyls (4.9% nitrogen) were synthesized and tested in tread stocks with an SKS-30ARKM base containing PM-70 carbon black and with an NK base containing a combination of channel gas black and PM-70 black. In mixtures based on SKS-30ARKM, addition of the nitro derivatives markedly increases the hardness and the modulus at 300% elongation, and causes a certain increase in the strength of the vulcanizates. In mixtures based on NK, the synthesized products raise the modulus at 300% elongation (by 10 - 20%) and the hardness. Orig. art. has: 4 figures and 1 table.

9

ASSOCIATION: Voronezhskiy tekhnologicheskiy institut (Voronezh Technological Institute); Voronezhskiy shinnyy zavod (Voronezh Tire Plant) 4/15

SUBMITTED: 00

ENCL: 00

SUB CODE: MT, GC

OTHER: 000

NO REF SOV: 003

Card 2/2 PP

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820011-4

KVASHIKOV, Ye.I. [Kvashnikov, Ye.I.]; BERNSHTEYN, A.F.; VASIL'YEVA, Z.A.
[Vasil'yeva, Z.A.]; SUKHOV, V.V.

Use of lactic acid bacteria for the biological preservation
of pulp. Mikrobiol. zhurn. 25 no. 1 1949-58 (MIRA 17:1)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820011-4"

AID P - 3812

Subject : USSR/Aeronautics

Card 1/1 Pub. 58 - 25/25

Author : Sukhov, Ye.

Title : ~~Model aircraft engine "Vikh"~~ (whirlwind)"

Periodical : Kryl. rod., 12, Insert, D 1955

Abstract : In the insert a complete description of the engine is given. It contains: Characteristics, technical description, specification of materials, large scale drawings of the assembled engine and its components, dimensions and tolerances and instructions for engine operation.

Institution : None

Submitted : No date

BAYKOV, B.P., kand.tekhn.nauk; BORDUKOV, V.T., inzh.; SOKOLOV, V.S., kand.
tekhn.nauk; LAZAREV, A.A., inzh.; POPOV, V.N., knad.tekhn.nauk;
SUKHOV, Ye. I., inzh.

Results of turbocharging of the KIM-100 engines. Izv.vys.ucheb.
(MIRA 15:10)
zav.; mashinostr. no.5:37-46 '62.

1. TSentral'nyy nauchno-issledovatel'skiy dizel'nyy institut
i Chelyabinskij traktornyy zavod.
(Tractors—Engines—Superchargers)

GOLENKO, V. A., KANAKHIN, N. N.; KONENOV, V. V.; SOKHOV, N. N.
studying the vibration of the working wheel blades of the turbine
of the TKR-11 turbocompressor. Trakt. i sel'khozmasch. no. 1, 17-19
Jan '65.

(MIHA 16:3)

1. Chelyabinskij politekhnicheskiy institut (for Konenov).
2. Chelyabinskij traktornyj zavod (for Sokhov).

SUKHOV, Ie.I., inzh.

Using the approximate characteristic of a turbine in analyzing
the pulsed supercharging system. Izv.vys.ucheb.zes.; mashinostr.
no.7:166-173 '63. (MIRA 16:11)

1. Chelyabinskij politekhnicheskiy institut.

MIKHOV, Yuli., inzh.

Standardized family of the TKR-11 turbocompressors for the
supercharging of tractor diesel engines. Trakt. i
sel'khozmash. no.1-5-7 Ja '64. (MIRA 17:4)

1. Chelyabinskij traktornyy zavod.

L 8112-66 EPA/EPF(n)-2/T-2/ETC(m)/EWP(f)
ACC NR: AP5025427

WW

SOURCE CODE: UR/0145/65/000/007/0110/0117

AUTHOR: Sukhov, Ye. I. (Engineer)

ORG: none

TITLE: Effects of turbine characteristics on the average efficiency during pulsating gas flow

SOURCE: IVUZ. Mashinostroyeniye, no. 7, 1965, 110-117

TOPIC TAGS: turbine engine, gas turbine engines, impulse turbine, turbine design

ABSTRACT: The effects of turbine characteristics on the average efficiency during pulsating gas flow were theoretically investigated. Since second order approximations of turbine characteristics are not accurate in most cases, a third order approximation of the form

$$\bar{\eta}_s = \bar{a}_1 \left(\frac{\bar{u}}{c_0} \right)^3 + \bar{a}_2 \left(\frac{\bar{u}}{c_0} \right)^2 + a_1 \left(\frac{\bar{u}}{c_0} \right),$$

was assumed (where

$$\bar{\eta}_s = \frac{\eta_s}{\eta_{s \max}} \quad \left(\frac{\bar{u}}{c_0} = \frac{u/c_0}{u/c_0 \text{ opt}} \right).$$

Card 1/3

UDC: 621.438

L 8112-66
ACC NR: AP5025427

(6)
average value), and the optimum speed and maximum efficiency corresponding to this speed were found as

$$\left(\frac{\bar{u}_{opt}}{c_0^*}\right) = \frac{2a+1}{3a} \pm \sqrt{\left(\frac{2a+1}{3a}\right)^2 - \frac{(a+2)}{3a} \cdot \frac{(c_0^*)^2}{(c_0^*)^2}}$$

and

$$\eta_{max} = a \left(\frac{\bar{u}_{opt}}{c_0^*}\right) \left[\left(\frac{\bar{u}_{opt}}{c_0^*}\right)^2 - \frac{2a+1}{a} \left(\frac{\bar{u}_{opt}}{c_0^*}\right) + \frac{a+2}{2} \frac{(c_0^*)^2}{(c_0^*)^2} \right]$$

respectively. These are plotted as a function for several impulse parameters $(c_0^*)^*/(c_0^*)^2$. From these curves it can be seen that the "form factor" a is often crucial in evaluating the average efficiency. This paper was presented by A. P. Stashkevich, Docent, Candidate of technical sciences, Chelyabinsk Polytechnic Institute (Chelyabinsk politekhnicheskiy institut). Orig. art. has: 3 figures and 22 formulas.

SUB CODE: PR/ SUBM DATE: 14Jun63/ ORIG REF: 006

jw
Card 3/3

SUKHOV, Yu.Z.; LEVIT, L.I.

Studies on hepatolenticular degeneration [with summary in French].
Zhur.nevr. i psikh. 57 no.5:591-596 '57. (MIRA 10:8)

1. Nervnoye otdeleniye Leningradskoy oblastnoy klinicheskoy bol'nitay
(nauchnyy rukovoditel' - prof. N.A.Popov), nervnoye otdeleniye bol'-
nitay Oktyabr'skoy zheleznoy dorogi i kafedra patologicheskoy natamii
Voyenno-morskoy meditsinskoy akademii imeni S.M.Kirova
(HEPATOLENTICULAR DEGENERATION, pathology,
brain (Rus))
(BRAIN, pathology,
in hepatolenticular degen. (Rus))

SUKHOV, Yu.Z.

Chronic nonspecific inflammatory pulmonary processes; morphological study. Zdravookhranenie 3 no.1:36-41 Ja-F '60.

(MIRA 13:6)

1. Iz kafedry patologicheskoy anatomii (nachal'nik kafedry - prof. A.N. Chistovich) voyenno-meditsinskoy ordena Lenina Akademii im S.M. Kirova.

(LUNGS--DISEASES)

SUKHOV, Yu.Z.

Inflammatory and reparative changes in the alveolar epithelium.
Dokl. AN SSSR 135 no.5:1278-1280 D '60. (MIRA 13:12)

1. Voyenno-meditsinskaya akademiya im. S.M.Kirova. Predstavлено
akademikom N.N.Anichkovym.
(EPITHELIUM) (LUNGS—INFLAMMATION)
(REGENERATION (BIOLOGY))

SUKHOV, Yu. Z. Cand Med Sci -- "On the pathological anatomy and pathological histology of chronic non-specific inflammatory processes in the lungs." Len, 1961 (Inst of Experimental Med, Acad Med Sci USSR). (KL, 4-61, 211)

-383-

SINITSINA, Tat'yana Aleksandrovna; SUKHOV, Yu.Z., red.; BUGROVA,
T.I., tekhn. red.

[Experimental atherosclerosis of the coronary arteries]
Eksperimental'nyi ateroskleroz koronarnykh arterii ser-
dtsa. Leningrad, Meditsina, 1964. 166 p.
(MIRA 17:3)



PICAREVSKIY, Valeriy Yevgen'yevich, doktor med. nauk; SUKHOV,
Yu.Z., red.

[Histopathology and problems in the pathogenesis of
influenza; an experimental, clinicopathological and
virological study] Gistopatologiya i voprosy patogeneza
grippa; eksperimental'noe, kliniko-anatomiceskoe i vi-
rusologicheskoe issledovanie. Leningrad, Meditsina,
1964. 169 p.
(MIRA 17:6)

SUKHOV, Yu.Z. (Leningrad, K-100, Lesnoy pr., 39 kv.291)

Metaplasia of the bronchial epithelium in chronic inflammation.
Arkh. anat. gist. i emtr. 40 no. 1:76-82 Ja '61. (MIRA 14:2)

1. Voyenno-meditsinskaya ordena Lenina akademiya im. S.M. Kirova.
(LUNGS—DISEASES) (BRONCHI)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820011-4

ZHAIOTINSKIY, Yuliy Mikhaylevich; SUKHOV, Yu.Z., red.

[Normal and pathological morphology of the neuron]
Normal'naia i patologicheskaiia morfologija neurona.
Leningrad, Meditsina, 1965. 322 p. (MIA 16:10)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820011-4"

SUKHOVA, A.A., brigadir, Geroy Sotsialisticheskogo Truda

We shall work even better. Put' i put.khoz. 5 no.12:3 D '61.
(MIRA 15:1)

1. Orlovskaya distantsiya puti Moskovskoy dorogi.
(Railroads--Employees) (Communist Party of the U.S.S.R.--Congresses)

SUKHOVA, A. G.

Prolonging the time of keeping preserved blood and an erythrocytic mass obtained without a stabilizer. Probl. gemat. i perel. krovi no. 12:44-47 '61. (MIRA 15:6)

1. Iz laboratorii konservirovaniya krovi (zav. - prof. F. R. Vinograd-Finkel() TSentral'nogo ordena Lenina instituta genatologii i perelivaniya krovi (dir. - deyствител'nyy chlen AMN SSSR prof. A. A. Bagdasarov[deceased]) Ministerstva zdravookhraneniya SSSR.

(BLOOD--COLLECTION AND PRESERVATION)

ABEZGAUZ, N.N.; SUKHOVA, A.G.; DANILOV, N.A.

Method of blood preservation at room temperature and the results of its clinical use. Probl. gemit. i perel. krovi 8 no. 5:47-52 My'63. (MIRA 16:8)

1. Iz laboratorii konservirovaniya krovi (zav. - prof. F.R. Vinograd-Finkel') TSentral'nogo ordena Lenina instituta hematologii i perelivaniya krovi (dir.-dotsent A.Ye. Kiselev) Ministerstva zdravookhraneniya SSSR i 3-y gorodskoy tuberkuleznoy bol'nitsy.
(BLOOD—COLLECTION AND PRESERVATION)

EGOROVICH, V.A.; SUKHOVA, A.G.; DERVIZ, G.V., prof.

Role of some esterolytic enzymes of the blood plasma of healthy people in destroying erythrocytes in blood preservation. Probl. gemat. i perel. krovi 10 no.1:40-45 Ja '65.

(MIRA 19:1)

1. Tsentral'nyy ordena lenina institut gematologii i perelivaniya krovi (dir. - dotsent A.Ye. Kiselev) Ministerstva zdravookhraneniya SSSR, Moskva.

DIANICH, M.M., assistant; SUKHOVA, A.I.; KHOKHLOVA, G.A., inzh.-khimik

Improving staple fiber suiting fabrics. Tekst. prom. 20
no. 11:53-54 N '60. (MIRA 13:12)

1. L'vovskiy torgovo-ekonomicheskiy institut (for Dianich).
2. Zaveduyushchiy khimicheskoy laboratoriyye Yegor'yevskogo
melanzhevogo kombinata (for Sukhova).
(Textile fabrics) (Sizing (Textile))

STRELINTOV, V. A.; GOREYEV, P. N.; SUKHOVA, A. M.; KUZNETSOV, A. D.

Sov. crusher. Gor. zhur. no. 9-76 S '64.

(MIRA 17-12)

SUKHOVA, A. V.

"The Importance of Poplars in the Landscaping of Various Zones of the USSR." Cand Agr Sci, Leningrad Order of Lenin Agricultural Engineering Acad imeni S. M. Kirov, Leningrad, 1954. (KL, No 7, Feb 55)

SO: Sum. No. 631, 26 Aug 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14)

SUKHOVA

LEONT'YEV, N.L.; KRECHETOV, I.V.; TSAREV, B.S.; SUKHOVA, A.V.

Effect of high temperature conditions of drying on the physical
and mechanical properties of wood. Der. prom. 5 no.10:3-5 O '56.
(MLRA 9:11)

1. Tsentral'nyy nauchno-issledovatel'skiy institut mekhanicheskoy
obrabotki drevesiny.
(Lumber--Drying)

SUKHOVA, Antonina Viktorovna; GOLUBEVA, T.M., red.; SHILLING, V.A.,
red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Use of foam polyuretan in the furniture industry] Primenenie pено-
полиуретана в мебельной промышленности. Leningrad, 1961. 18 p.
(Leningradskii Dom nauchno-tekhnicheskoi propagandy. Obmen peredо-
vym opyтом. Seriia: Derevoobrabatyvaiushchaya promyshlennost'
no.2) (MIRA 14:10)

(Furniture industry) (Foam rubber)

SUKHOVA, A.V., inzh.

Painting furniture in the high-frequency electric field.
Ler.prom. 10 no.6:15-17 Je '61. (MIN. 14:7)

1. TSentral'noye proyektno-konstruktorskoye byuro Upravleniya,
mebel'noy promyshlennosti Mysgorsovmarkhoza.
(Furniture painting) (Spray painting, Electrostatic)

SURKOV, A. V., LUPINOV, V. S., nauchn. red.; POGOV, N. V., red.

(Metody i resyutennia mebel' na prastnost' i degevochivost'.
Moi. iz istyannia mebel' na prastnost' i degevochivost'.
Moskva, Tsentr. nauchno-issled. inst. informatsii i tekhniko-
tekhnicheskogo isledovaniya po lesam, tsellulozno-bumazhnoi, derev'-
steklyashchi sredstvam i lesnomu krozu, 1964. 47 p.)

(NIRA 18:5) **gicheaskiy**
1. Vsesoyuznyj prikladno-konstruktorskiy i tekhnicheskij
institut mebeli i flot-sil'skogo.

SUKHOVA, A.V.

Methods for studying the durability of upholstered furniture.
(MIRA 18:4)
Der. prom. 14 no. 14-15 Ja '65.

I. Vsesoyuznyy proyektno-konstruktorskiy i tekhnologicheskiy
institut mebeli.

POPOV, I.; AFANAS'YEVA, V.; SUKHOVA, G.

Laundering linen without boiling it. Zhil.-kom.khoz. 12 no.8:
(MIRA 16:2)
24-25 Ag '62.
(Laundry)

VASIL'YEV, N.; DEMIN, D.; YEROKHOVETS, A.; ZHURAVLEV, V.;
ZHURAVLEVA, R.; KANDYBA, Yu.; KOLOBKOV, G.; KRASNOV, V.;
KUVSHINNIKOV, V.; MATUSHEVSKIY, V.; PLEKHANOV, G.;
SHIKALOV, L.; SUKHOVA, G.M., red.; RUBINOVA, L.Ye.,
tekhn. red.

[On the trail of the Tunguska catastrophe] Po sledam
Tungusskoi katastrofy. Tomsk, Tomskoe knizhnoe izd-vo,
(MIRA 16:10)
1960. 157 p.
(Podkamennaya Tuguska Valley--Meteorites)

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CIA-RDP86-00513R001653820011-4

BORSHCHEV, Ivan Kuz'mich; SUKHOVA, G.M., red.; RUBINOVA, L.Ye., tekhn.red.

[Planning collective-farm production] Planirovaniye kolkhoznogo
proizvodstva. Tomsk, Tomskoe knizhnoe izd-vo, 1961. 23 p.
(MIRA 14:6)

(Collective farms—Management)

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CIA-RDP86-00513R001653820011-4"

AFANS'YEVA, V.; SUKHOVA, G.V.

Using disinfectants in washing laundry. Zhil.-kom.khoz. 5 no.1:18-19
'55. (MIRA 8:5)

l. Nauchnyye sotrudniki Akademii kommunal'nogo khozyaystva im. K.D.
Pamfilova.
(Laundry)

POPOV, I.P.; AFANAS'YEVA, V.L.; SUKHOVA, G.V.; ZUYEVA, K.P.

New method of bleaching laundry. Gor.khoz.Mosk.29 no.1:40 J '55.
(Bleaching powder) (MIRA 8:3)

9